**CURRICILUM VITAE OF SAMUEL MENSAH SACKEY**

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| **ADDRESS**: Department of Mechanical Engineering, KNUST, Kumasi, Ghana  **PHONE**: +233(0)242-232-239  **EMAIL**: [smsackey.coe@knust.edu.gh](mailto:smsackey.coe@knust.edu.gh), [sackeysm@yahoo.com](mailto:sackeysm@yahoo.com) | | |
| **DATE OF BIRTH:** |  | 3rd March, 1962 |
| **GENDER:** |  | Male |
| **MARITAL STATUS:** |  | Married |

**NATIONALITY:** Ghanaian

**LANGUAGES:**

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| **Language** | **Speaking Proficiency** | **Reading Proficiency** | **Writing Proficiency** |
| **English** | Very good | Very good | Very good |
| **Ga** | Excellent | Very good | Very good |

**....................ACADEMIC QUALIFICATIONS.........................**

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| |  |  |  | | --- | --- | --- | | **Dates** | **Qualification** | **Institution** | | 2000 – 2004 | PhD, Mechanical Engineering | Department of Mech. Eng. North Carolina Agric.& Technical State University, USA | | 1994 – 1995 | MSc in Engineering and Management of Manufacturing Systems | School of Industrial and Manufacturing Science, Cranfield University, the UK | | 1984 – 1988 | BSc, Mechanical Engineering | University of Science and Technology, Ghana | |  |
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**....................PROFESSIONAL EXPERIENCE........................**

**EARLY INDUSTRY EXPERIENCE**

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| 1989 – 1996 | Product and Process Development Engineer, GRATIS Project, Ghana. Performed heat treatment of metals; developed layouts for machinery installations; took part in product development initiatives, developed simple products. Led and took part in maintenance and repair of production machinery. Managed an engineering business unit with a regional scope for several years. |

**University Teaching and Research experience**

**Academic ranks held and subjects taught** **at Kwame Nkrumah University of Science and Technology**

August 1st, 2015 - present: **Associate Professor**

October 1st, 2007 - July 31st 2015: **Senior Lecturer**

July 4th, 1996 – September 30th, 2007, **Lecturer**

**Selected undergraduate courses taught at the KNUST:**

*Principles of Production Engineering, Production Engineering Techniques, Machine Design, Engineering Materials, Metallurgy, Dynamics of Machinery, Engineering Vibration, Statics, Strength of Materials, Engineering Drawing, Mechatronics, Production Planning and Control, Facilities Design, Ergonomics and Human Factors*

**Postgraduate courses taught at the KNUST:**

*Integrated Product and Process Design, Computer-aided Manufacturing, Optimal Design of Machine Elements, Quality Assurance*

**Other Teaching Experiences**

1. August 2000 – May 2004: PhD Student/Instructor,Department of Mechanical Engineering, North Carolina Agricultural & Technical State University, USA

*Manufacturing Processes, Statics, Statics and Mechanics of Materials, Materials Science, Dynamics, System Dynamics, Mathematics: Algebra and Trigonometry*

1. August 2015 - June 2016: Cape Peninsula University of Technology, South Africa

*Strength of Materials, Applied Strength of Materials, Mechanics*

**(ii) Postgraduate (MSc) Projects Supervision:** Over 10

**Publications**

1. **Seventeen articles in refereed journals including**
2. S. M. Sackey, A. Bester and (2017), Industry 4.0 Learning Factory didactic Design Parameters for Industrial Engineering Education in South Africa, South African Journal of Industrial Engineering Vol 28(1), pp 114-124.
3. S. M. Sackey and A. Bester (2016), Industrial Engineering Curriculum in Industry 4.0 in a South African Context, South African Journal of Industrial Engineering Vol 27(4), pp 101-114.
4. Samuel M. Sackey and Samuel P. Owusu-Ofori (2004), a Dynamic Modeling Technique for Damage Progression in Drilling of Composite Laminates, Transactions of the North Americam Manufacturing Research Institution of SME, Vol. 32, pp.71-78.
5. Samuel M. Sackey and Powell, J. W. (2006), Quality Issues in Small and Medium Ghanaian Engineering Manufacturing Companies, Journal of the Ghana Institution of Engineers, Vol. 4 No. 1, June, pp.21-28.
6. Samuel M. Sackey and Powell, J. W. (2006), Improving Product Integrity in Agro-processing Equipment Manufacture in Ghana, Journal of the Ghana Institution of Engineers, Vol. 4 No. 2, June pp. 34-44.
7. Samuel M. Sackey and Samuel P. Owusu-Ofori (2015), An Empirical Scheme for Drilling Delamination-free Holes in Polymer-matrix Composite Laminates, Journal of Advances in Science and Technology Research (JASTER), Vol. 1, No. 1, pp.1-3.
8. S. M. Sackey and S. A. Frimpong (2015), Manufacturing Engineering Practices in the Metal Fabrications Sector of Ghanaian Industry, Journal of Science and Technology, Vol. 35, No. 1, pp. 39-51.
9. S. M. Sackey, V. R. Ancha, M. P. Chinyama, C. Awono Onana, R. Danwe, M. M. Megahed, B. Delpouve, S. Chama, N. Mahomed, V. Kayibanda, L. Y. Kabeya Mukeba, A. Müller (2014), [Collaborative meta-profile development to harmonise mechanical engineering education in Africa](http://www.tuningjournal.org/article/view/58), Tuning Journal for Higher Education, Vol 2, No 1. pp.161-178.
10. A. Akayeti, Samuel M. Sackey, D. E.K. Dzebre (2015), Development of Indigenous Automobile Design and Manufacturing in Ghana, African Journal of Applied Research, Vol.1, No.1 ISSN 2408-7920, pp. 3179-192.
11. F. L. Larkai and S. M. Sackey (2015), Factorial Experiments for Product Quality Improvement in a Ghanaian Manufacturing Firm, Journal of Science and Technology Vol. 35, No. 2, pp50-59
12. S. M. Sackey, S. P. Owusu-Ofori, F. Nyarko (2016). [Designed Experiments for Studying Delamination in Drilling of Composite Laminates,](http://jaster.us/images/Sackey_Delamination_by_Factorial_Expeirments_Jaster_Vol.3_No._2.pdf)  Journal of Advances in Science and Technology Research (JASTER), Volume 3, Number 2.

**Conference Proceedings:** Five conferences

**SELECTED RECENT Service to the KNUST Community**

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| 1. | August 1 2017 - | Director, Technology Consultancy Centre, KNUST |
| 2. | May 22, 2017 | Chairman, committee to evolve BSc. Industrial Eng. Programme for KNUST |
| 3. | 2012 -2014 | Head, Mechanical Engineering (ME) Department, KNUST |
| 4. | 2009-2012 | Head, Design & Manufacturing Section, ME, KNUST |
| 6. | 2011-2012 | Coordinator, the BSc Aerospace Engineering Programme, KNUST |
| 7. | 2010-2012 | Coordinator, Postgraduate Programmes, ME Department, KNUST |

**Consultancy AND Service to the National Community:**

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| 1. | Nov 28, 2017 - | KNUST Representative on NABTEX Subject Panel (Engineering) |
| 2. | April 6, 2017 - | Member, committee set up by Ghana’s Minister of Environment, Science, Technology and Innovation, to draft a national legislative bill to set up (i) Presidential Advisory Council on Science, Technology and Innovation. (ii) National Science, Technology and Innovation Fund. |
| 3. | Mar. 29, 2017 - | External Assessor of papers/publications, Takoradi Technical University |
| 4. | 2017/2018 | Assessment of Dossier for promotion, University of Education, Winneba |
| 5. | Nov. 30, 2016 | Chairman, National Accreditation Board panel to assess application for accreditation of a new programme: **B-Tech in** **Mechatronics** by Assemblies of God Institute of Higher Learning, Kumasi. |
| 6. | 1999-2000 | Team member responsible for New Investment, Product Development and Technology Transfer, **Impact Assessment of the Privatization Program in Ghana: 1988-1996,** a World Bank-sponsored evaluation report. |
| 7. | Aug. – Oct,1997 | Team member representing the ME Department of KNUST, national committee to evolve **Standards on Engineering Design and Manufacturing**. Work done for the Ghana Standards Board. |
| 8. | May-July. 2006 | Practical Training of Kumasi Polytechnic teachers in programming and operation of **Computer Numeric Control (CNC**) machine tools. |
| 9 | June, 2008 - | External Examiner to the Department of Mechanical Engineering, University of Mines and Technology, Tarkwa, Ghana |

**Service to the INTERNATIONAL Community:**

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| 1. | 2000 - 2005 | Instructor, North Carolina Agricultural and Technical State University |
| 2. | 2012 - 2014 | Member, the Mechanical Engineering Subject Area sub-group on the Committee on Harmonization and Tuning of African Higher Education |
| 3. | 2014-present | Member, Editorial Board, African Journal of Applied Research |
| 4. | 2015-2016 | Instructor/Researcher, Cape Peninsula University of Technology, South Africa |

**Referees**

1. Dr J. W. Powell, former Professor, Mechanical Engineering Department, KNUST, 44 Valence Crescent Witney, Oxfordshire OX28 5FT, UK <johnpowell137@btinternet.com>
2. Prof. N. Kyei-Bafour, Agricultural Engineering Department, KNUST, Ghana
3. Dr. S. Owusu-Ofori, former Boeing Professor, Mechanical Engineering Department, North Carolina Agricultural and Technical State University, USA (samofori20@gmail.com)